

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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IOWA, Southwest

SHELBY COUNTY --- DEFIANCE [41.83, -95.35], 1.0 N DEFIANCE [41.84, -95.35]

09/18/10 10:25 CST	0	Hail (1.00 in)
09/18/10 10:30 CST	0	Source: Public

The hail was mostly nickel-size, but a few stones were as big as quarters.

Thunderstorms continued to develop north of a cold front from eastern Nebraska into southwest Iowa during the morning and afternoon of September 18th. The storms produced large hail over portions of northeast Nebraska during the early morning hours, weakened some by mid morning, but regained a little strength toward noon as they crossed into western Iowa.

PAGE COUNTY --- 0.7 N YORKTOWN [40.74, -95.15]

09/18/10 20:05 CST	0	Hail (1.75 in)
09/18/10 20:05 CST	0	Source: Law Enforcement

PAGE COUNTY --- 1.7 SW CLARINDA MUNI ARPT [40.70, -95.04]

09/18/10 20:12 CST	0	Hail (1.00 in)
09/18/10 20:12 CST	0	Source: Trained Spotter

Quarter-size hail was reported along with very heavy rain.

PAGE COUNTY --- 3.0 SE PAGE CENTRE [40.69, -95.09]

09/18/10 20:23 CST	0	Hail (1.75 in)
09/18/10 20:23 CST	0	Source: Trained Spotter

PAGE COUNTY --- 0.9 NW CLARINDA [40.74, -95.04]

09/18/10 20:35 CST	0	Hail (1.75 in)
09/18/10 20:35 CST	0	Source: Trained Spotter

PAGE COUNTY --- 0.7 NNW CLARINDA [40.74, -95.03], 2.5 ESE CLARINDA MUNI ARPT [40.70, -94.98]

09/18/10 20:50 CST	0	Hail (3.00 in)
09/18/10 21:02 CST	0	Source: Trained Spotter

A large quantity of hail lasted for at least 10 to 15 minutes near and east/southeast of Clarinda. The hail was mostly quarter-size but a few stones were up to around tennis ball-size.

HARRISON COUNTY --- 0.7 S MONDAMIN [41.71, -96.02]

09/18/10 21:50 CST	0	Hail (0.88 in)
09/18/10 21:50 CST	0	Source: Trained Spotter

POTTAWATTAMIE COUNTY --- 1.5 SSW HANCOCK [41.38, -95.38]

09/18/10 23:55 CST	0	Hail (0.88 in)
09/18/10 23:55 CST	0	Source: Law Enforcement

POTTAWATTAMIE COUNTY --- 10.5 E OAKLAND [41.30, -95.20]

09/19/10 00:30 CST	0	Hail (2.00 in)
09/19/10 00:30 CST	0	Source: Public

The hail was accompanied by very heavy rain which totaled around 4 inches in about 90 minutes.

Thunderstorms redeveloped in southwest Iowa during the evening of September 18th, north of a cold front that had pushed south of the region earlier in the day. The storms produced large hail and areas of very heavy rain.

NEBRASKA, East

LANCASTER COUNTY --- 1.3 WSW MALCOLM [40.89, -96.87]

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/01/10 18:58 CST		0	Hail (1.00 in)
	09/01/10 18:58 CST		0	Source: Trained Spotter

A few quarter-size hailstones were reported by a trained spotter just south of Malcolm.

GAGE COUNTY --- 0.9 NW CORTLAND [40.51, -96.71]

09/01/10 19:02 CST	0	Hail (1.00 in)
09/01/10 19:02 CST	0	Source: Law Enforcement

LANCASTER COUNTY --- FIRTH [40.53, -96.60]

09/01/10 19:03 CST	0	Hail (0.88 in)
09/01/10 19:03 CST	0	Source: Trained Spotter

LANCASTER COUNTY --- 0.9 SW RAYMOND [40.94, -96.78], 2.0 NE RAYMOND [40.97, -96.74]

09/01/10 19:10 CST	0	Hail (1.00 in)
09/01/10 19:15 CST	0	Source: Public

Nickel to quarter-size hail fell for several minutes in the Raymond area.

LANCASTER COUNTY --- 3.3 SE PANAMA [40.57, -96.47]

09/01/10 19:35 CST	0	Hail (0.88 in)
09/01/10 19:35 CST	0	Source: Public

OTOE COUNTY --- 4.7 WNW LORTON [40.60, -96.10]

09/01/10 20:30 CST	0	Hail (1.00 in)
09/01/10 20:30 CST	0	Source: Law Enforcement

CASS COUNTY --- 1.4 NE MURDOCK [40.93, -96.25], 0.9 NW MURDOCK [40.93, -96.28], 0.9 SSW MURDOCK [40.91, -96.28], 2.2 ESE MURDOCK [40.91, -96.23]

09/01/10 21:48 CST	0	Flash Flood (due to Heavy Rain)
09/01/10 23:48 CST	0	Source: Law Enforcement

Rainfall of 2 to 4 inches caused flash flooding across 310th Street just north of Highway 1 near Murdock.

CASS COUNTY --- 1.6 WNW ALVO [40.88, -96.41], 1.7 SW ALVO [40.85, -96.40], 1.8 SE WEEPING WATER ARPT [40.85, -96.10], 2.3 ENE WEEPING WATER ARPT [40.89, -96.08]

09/02/10 00:10 CST	10K	Flash Flood (due to Heavy Rain)
09/02/10 06:00 CST	0	Source: Emergency Manager

Rainfall of 3 to 5 inches fell across the upper reaches of the Weeping Water Creek basin including 4.47 inches in Weeping Water. The heavy rain caused flash flooding along Weeping Water Creek and some of its tributaries from around Alvo to downstream of Weeping Water. In Weeping Water, water crossed a few roads and flooded into the city park. Numerous county roads between Alvo and Weeping Water were flooded.

CASS COUNTY --- 3.0 W WEEPING WATER [40.88, -96.19], 1.6 S WABASH [40.86, -96.25], 1.3 SW NEHAWKA [40.82, -96.00], 2.3 SW UNION [40.80, -95.93], 2.3 NW UNION [40.84, -95.93]

09/02/10 06:00 CST	20K	Flood (due to Heavy Rain)
09/02/10 18:00 CST	0	Source: Emergency Manager

Rainfall of 3 to 5 inches fell across much of the Weeping Water Creek basin from the evening of 9/1 until the early morning hours of 9/2. This caused Weeping Water Creek to flood from near Weeping Water downstream to Union. The creek at Union crested a little over its 25 foot flood stage during the early afternoon hours of 9/2. In Weeping Water the creek crested about 3 feet lower than the highest crest that was reached in June of 2010. Numerous county roads along the creek flooded.

Thunderstorms developed in southeast Nebraska along and south of a weak nearly stationary front during the early evening of Sept 1. The storms produced a few marginally severe hailstones, but since many of them repeatedly tracked across the same area for several hours, they also produced locally very heavy rain amounts. The heavy rain caused some flooding and flash flooding east of Lincoln and also helped push the Missouri River back up to near-flood or flood levels in far southeast Nebraska.

NEMAHA COUNTY --- 1.3 ENE PERU [40.49, -95.71], 1.5 S NEMAHA [40.31, -95.67], 6.3 SE NEMAHA [40.27, -95.57], 7.7 ESE NEMAHA [40.29, -95.53], 3.7 ESE PERU [40.47, -95.66]

09/02/10 04:50 CST	2K	Flood (due to Heavy Rain)
09/05/10 15:00 CST	0	Source: Official NWS Observations

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Heavy rain events across eastern Nebraska and western Iowa from June into September, and high upstream reservoir releases, caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. The river near Brownville first climbed above flood stage during the afternoon on June 11th and remained above flood stage through July, for most of August, September and into October. The river at Brownville crested at close to 43 feet during the evening of June 23rd, flood stage is 32 feet. The river near Brownville had an early September crest of a little under 34 feet during the early morning hours of Sept. 3. Besides considerable flooding of lowlands along the river, several roads and recreation areas were flooded. However, most of the more significant flooding and damage was done in June and July.				
Heavy rains in June, combined with increased releases from upstream reservoirs and periodic heavy rain events from July into September, caused prolonged flooding along the Missouri River. The flooding began in June around the Brownville area and lasted periodically into September and October.				
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JEFFERSON COUNTY --- 5.2 WNW POWELL [40.25, -97.37]				
	09/13/10 14:15 CST		0	Hail (1.25 in)
	09/13/10 14:15 CST		0	Source: Trained Spotter
The ground was covered white with hail up to half dollar-size.				
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PLATTE COUNTY --- 0.9 NE HUMPHREY [41.69, -97.49]				
	09/13/10 14:35 CST		0	Hail (1.00 in)
	09/13/10 14:35 CST		0	Source: Trained Spotter
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SALINE COUNTY --- 0.5 W WILBER [40.48, -96.96]				
	09/13/10 14:39 CST		0	Hail (1.75 in)
	09/13/10 14:39 CST		0	Source: Emergency Manager
Golf ball-size hail was reported in the Wilber area.				
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JEFFERSON COUNTY --- 2.8 S HEDRIX [40.14, -97.25]				
	09/13/10 14:42 CST		0	Thunderstorm Wind (EG 56 kt)
	09/13/10 14:42 CST		0	Source: Emergency Manager
Emergency management estimated that thunderstorm winds gusted to 65 mph a little west of the Fairbury area. The winds were accompanied by dime to nickel-size hail.				
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JEFFERSON COUNTY --- 4.0 W FAIRBURY [40.15, -97.25]				
	09/13/10 14:42 CST		0	Hail (0.88 in)
	09/13/10 14:42 CST		0	Source: Emergency Manager
Hail up to nickel-size was accompanied by thunderstorm winds which were estimated at around 65 mph.				
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JEFFERSON COUNTY --- 0.9 SE POWELL [40.21, -97.27]				
	09/13/10 14:48 CST		0	Hail (1.00 in)
	09/13/10 14:48 CST		0	Source: Trained Spotter
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JEFFERSON COUNTY --- 0.9 SW THOMPSON [40.06, -97.26], 0.8 SSW THOMPSON [40.06, -97.26]				
	09/13/10 15:04 CST		0	Tornado (EF0, L: 0.22 mi , W: 50 yd)
	09/13/10 15:05 CST		0	Source: Emergency Manager
A small, brief tornado was observed by emergency management about 1 mile south of Thompson or about 5 miles or so southwest of Fairbury. The width of the damage path was about 50 yards and the length was about 1/4 mile. Damage was mainly to crops.				
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STANTON COUNTY --- 6.2 W PILGER [42.03, -97.17]				
	09/13/10 15:08 CST		0	Hail (1.00 in)
	09/13/10 15:08 CST		0	Source: Emergency Manager
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SAUNDERS COUNTY --- 5.0 N WAHOO [41.29, -96.62], WAHOO [41.22, -96.62]				
	09/13/10 15:45 CST		0	Hail (2.00 in)
	09/13/10 15:57 CST		0	Source: Law Enforcement
Hail up to 2 inches in diameter was reported from around 5 miles north of Wahoo into Wahoo. The hail was accompanied by thunderstorm winds at least 50 mph which downed some small tree limbs in Wahoo.				

Storm Data and Unusual Weather Phenomena - September 2010

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SAUNDERS COUNTY --- ITHACA [41.17, -96.55]				
	09/13/10 15:55 CST		0	Hail (2.50 in)
	09/13/10 16:22 CST		0	Source: NWS Storm Survey
Hail up to baseball-size caused significant house and vehicle damage in the Ithaca area. The hail was accompanied by winds that gusted to at least 50 mph. By some accounts the hail lasted up to 45 minutes. Almost every house in town had siding damage and/or windows broken out, mainly on the north side of the house. Vehicles also sustained damage as did trees and other structures. Some crops east of town were shredded to the ground.				
JEFFERSON COUNTY --- 3.7 E THOMPSON [40.07, -97.18]				
	09/13/10 16:00 CST		0	Hail (1.00 in)
	09/13/10 16:00 CST		0	Source: Public
Hail up to 1 inch in diameter covered the ground up to a depth of 8 inches south of Fairbury.				
SAUNDERS COUNTY --- 5.0 S MEAD [41.16, -96.50], 2.1 NE MEMPHIS [41.12, -96.43]				
	09/13/10 16:00 CST		0.25M	Hail (2.00 in)
	09/13/10 16:25 CST		0.80M	Source: Newspaper
Thunderstorm winds and hail up to 2 inches in diameter caused substantial damage to the University of Nebraska agricultural research center. Winds were estimated to have gusted between 70 and 80 mph. Damage estimates to the center included \$800,000 in crop damage, \$500,000 in building damage and \$250,000 in vehicle damage. Thirty-seven buildings had broken windows, siding and/or roof damage and several horses were injured and had to be euthanized when the open-front portable building they were in was toppled.				
SAUNDERS COUNTY --- 5.0 S MEAD [41.16, -96.50], 2.3 NNE MEMPHIS [41.13, -96.43]				
	09/13/10 16:00 CST		0.50M	Thunderstorm Wind (EG 65 kt)
	09/13/10 16:25 CST		0	Source: Newspaper
Thunderstorm winds and hail up to 2 inches in diameter caused substantial damage to the University of Nebraska agricultural research center. Winds were estimated to have gusted between 70 and 80 mph. Damage estimates to the center included \$800,000 in crop damage, \$500,000 in building damage and \$250,000 in vehicle damage. Thirty-seven buildings had broken windows, siding and/or roof damage. Several horses were injured and had to be euthanized when the open-front portable building they were in was toppled.				
SAUNDERS COUNTY --- 4.0 WSW ASHLAND [41.03, -96.45], 0.9 SE ASHLAND [41.04, -96.37]				
	09/13/10 16:25 CST		0	Thunderstorm Wind (MS 66 kt)
	09/13/10 16:30 CST		0	Source: Trained Spotter
A spotter with an anemometer measured a thunderstorm wind gust of 76 mph a little west of Ashland. The winds caused major damage to at least one roof in or near Ashland with numerous large tree limbs and a few trees downed from southwest of town into town. The fallen trees damaged several houses and vehicles in the area.				
CASS COUNTY --- 0.9 SW GREENWOOD [40.96, -96.44]				
	09/13/10 16:35 CST		0	Thunderstorm Wind (EG 75 kt)
	09/13/10 16:35 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at 80 to 90 mph tore the roof off of a motel near the Greenwood exchange on Interstate 80 exposing 23 rooms. The winds also blew several semi-trucks off of Interstate 80 in the region prompting a partial closure. Tree and other damage was noted in the area.				
LANCASTER COUNTY --- 0.4 ENE (LNK)LINCOLN ARPT [40.85, -96.76], 1.3 NNE HANLON [40.69, -96.66]				
	09/13/10 16:38 CST		0	Thunderstorm Wind (MG 50 kt)
	09/13/10 17:00 CST		0	Source: ASOS
Thunderstorm wind gusts were measured at 58 mph by the Asos at the Lincoln airport, although winds could have gusted higher across the city. The wind gust measured by Asos occurred at 538pm CDT. The winds downed numerous trees and large branches which caused some vehicle and home damage and also knocked out power to 10,000 LES customers. Most of the damage was noted across the northern sections of the town where 9 out of 12 areas of damage occurred according to LES. In addition, 2 people sustained minor injuries when the car they were driving collided with a fallen tree near 30th and Dudley Streets. The damage extended south to at least 5 miles south of town where a fence was blown down and a lot of 2 inch in diameter tree limbs were downed.				
JEFFERSON COUNTY --- 2.8 S HEDRIX [40.14, -97.25], FAIRBURY [40.15, -97.17]				
	09/13/10 16:40 CST		0	Hail (1.25 in)
	09/13/10 16:43 CST		0	Source: Fire Department/Rescue
Hail up to half dollar-size was reported from around 4 miles west of Fairbury into Fairbury.				

Storm Data and Unusual Weather Phenomena - September 2010

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CASS COUNTY --- 0.9 NW MURDOCK [40.93, -96.28]				
	09/13/10 16:45 CST		0	Thunderstorm Wind (EG 65 kt)
	09/13/10 16:45 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at over 70 mph blew a tree onto a car causing significant damage, and also downed many large limbs and uprooted a few trees in the Murdock area. The winds also snapped power poles in the region and blew a truck off of Highway 1. School was canceled the next day due to loss of power.				
CASS COUNTY --- 0.9 NW ELMWOOD [40.84, -96.29]				
	09/13/10 16:50 CST		0	Thunderstorm Wind (EG 65 kt)
	09/13/10 16:50 CST		0	Source: Public
Thunderstorm wind gusts estimated at over 70 mph blew a tree onto a home and also blew the window out of a house in the Elmwood area. The winds ripped the roof off of a funeral home and caused significant tree and power pole damage in the area. A three-mile portion of a recreation trail near town was closed for several days because of fallen trees and limbs and a bridge railing was damaged by the storm.				
CASS COUNTY --- 0.9 NW ELMWOOD [40.84, -96.29], 0.4 WNW WEEPING WATER [40.87, -96.14]				
	09/13/10 16:50 CST		0	Thunderstorm Wind (EG 70 kt)
	09/13/10 17:00 CST		0	Source: Public
Thunderstorm wind gusts estimated at around 80 mph downed around 100 structures that supported high voltage transmission lines between Elmwood and Weeping Water. Significant tree damage was also noted over the area. The downed power lines caused several thousand people to lose power in the region.				
CASS COUNTY --- 0.5 W WEEPING WATER [40.87, -96.14]				
	09/13/10 16:59 CST		0	Thunderstorm Wind (EG 65 kt)
	09/13/10 16:59 CST		0	Source: Broadcast Media
Thunderstorm winds that were estimated at over 70 mph snapped power poles and caused significant tree damage in the Weeping Water area. The fallen trees/limbs caused some structural and vehicle damage in the area.				
OTOE COUNTY --- UNADILLA [40.68, -96.27]				
	09/13/10 17:12 CST		0	Thunderstorm Wind (EG 60 kt)
	09/13/10 17:12 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at close to 70 mph downed numerous trees and power lines in the Unadilla area. A few outbuildings in the area were also destroyed.				
JEFFERSON COUNTY --- 1.7 WSW STEELE CITY [40.02, -97.05]				
	09/13/10 17:15 CST		0	Hail (1.00 in)
	09/13/10 17:15 CST		0	Source: Trained Spotter
OTOE COUNTY --- 0.7 N SYRACUSE [40.66, -96.18]				
	09/13/10 17:15 CST		0	Thunderstorm Wind (EG 65 kt)
	09/13/10 17:20 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at over 70 mph uprooted about a dozen trees and caused other widespread tree damage in the Syracuse area. Some of the downed trees damaged homes and businesses in the region and also downed power lines. Some outbuildings were also destroyed.				
OTOE COUNTY --- 3.0 NW OTOE [40.75, -96.16], OTOE [40.72, -96.12]				
	09/13/10 17:16 CST		0	Thunderstorm Wind (EG 70 kt)
	09/13/10 17:16 CST		0	Source: Emergency Manager
Emergency management estimated thunderstorm wind gusts approached 80 mph near Otoe. The winds toppled many trees in the area, especially north and west of town where 5 county roads were closed. The wind was accompanied by hail up to 1 inch in diameter.				
OTOE COUNTY --- OTOE [40.72, -96.12]				
	09/13/10 17:16 CST		0	Hail (1.00 in)
	09/13/10 17:16 CST		0	Source: Emergency Manager
The hail was accompanied by thunderstorm wind gusts estimated at 70 to 80 mph.				

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OTOE COUNTY --- 0.6 N DUNBAR [40.68, -96.03]				
	09/13/10 17:17 CST		0	Thunderstorm Wind (EG 65 kt)
	09/13/10 17:17 CST		0	Source: Emergency Manager
Thunderstorm winds estimated at over 70 blew a tractor trailer off of the road near the Highway 2 and County Road 67 interchange and also overturned a fifth-wheel trailer. Trees were damaged and a few were uprooted which caused some house damage in the area .				
OTOE COUNTY --- 3.1 W DUNBAR [40.67, -96.09]				
	09/13/10 17:18 CST		0	Hail (1.00 in)
	09/13/10 17:18 CST		0	Source: Trained Spotter
OTOE COUNTY --- 2.1 N SYRACUSE [40.68, -96.18]				
	09/13/10 17:19 CST		0	Hail (1.25 in)
	09/13/10 17:19 CST		0	Source: Emergency Manager
Reported near the intersection of Highways 50 and 2.				
OTOE COUNTY --- 1.0 NNW NEBRASKA CITY ARPT [40.68, -95.87]				
	09/13/10 17:20 CST		0	Thunderstorm Wind (EG 55 kt)
	09/13/10 17:20 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at over 60 mph destroyed a machine shed on the western outskirts of Nebraska City driving some of the boards through a window of a house and also into the roof.				
JOHNSON COUNTY --- TECUMSEH [40.37, -96.18], 4.0 ENE TECUMSEH [40.39, -96.11]				
	09/13/10 17:30 CST		0	Thunderstorm Wind (EG 60 kt)
	09/13/10 17:30 CST		0	Source: Newspaper
Thunderstorm wind gusts estimated at around 70 mph destroyed a 60 by 150 foot machine shed and tipped over a large tractor east of Tecumseh . The winds caused tree damage throughout the Tecumseh area and fallen tree limbs knocked the power out to 200 customers.				
JOHNSON COUNTY --- ELK CREEK [40.28, -96.13]				
	09/13/10 17:35 CST		0	Thunderstorm Wind (EG 60 kt)
	09/13/10 17:35 CST		0	Source: Newspaper
Thunderstorm wind gusts estimated at around 70 mph downed a lot of large tree limbs in the Elk Creek area and the fallen limbs caused some shingle and other damage. At least one window was blown out of a local business.				
NEMAHA COUNTY --- 0.9 SW AUBURN [40.39, -95.84]				
	09/13/10 17:43 CST		0	Hail (1.75 in)
	09/13/10 17:43 CST		0	Source: Trained Spotter
Accompanied by thunderstorm winds which gusted to at least 50 mph.				
NEMAHA COUNTY --- 0.7 S JOHNSON [40.41, -96.00]				
	09/13/10 17:45 CST		0	Thunderstorm Wind (EG 61 kt)
	09/13/10 17:45 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at close to 70 mph downed large tree limbs in the area and caused some power poles to lean.				
NEMAHA COUNTY --- 0.9 SW AUBURN [40.39, -95.84]				
	09/13/10 17:50 CST		0	Thunderstorm Wind (EG 61 kt)
	09/13/10 17:50 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at around 70 mph downed large limbs and some trees in the Auburn area.				
NEMAHA COUNTY --- 6.0 SE AUBURN [40.34, -95.75]				
	09/13/10 17:50 CST		0	Thunderstorm Wind (EG 66 kt)
	09/13/10 17:50 CST		0	Source: Emergency Manager
Thunderstorm winds destroyed a 50 X 70 ft machine shed with the debris blown about a 1/4 mile. Corn and soybeans were flattened in the area with winds estimated at 70 to 80 mph.				

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RICHARDSON COUNTY --- 2.0 N STELLA [40.26, -95.77], STELLA [40.23, -95.77]				
	09/13/10 18:05 CST		0	Thunderstorm Wind (EG 55 kt)
	09/13/10 18:05 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at over 60 mph downed many very large tree limbs blocking east-west travel on Highway 62 in Stella. The winds also ripped shingles off of some roofs and was accompanied by small hail. Grain bins and corn and bean fields suffered damage north of town.				
RICHARDSON COUNTY --- 1.7 WSW SHUBERT [40.22, -95.71]				
	09/13/10 18:15 CST		0	Thunderstorm Wind (EG 55 kt)
	09/13/10 18:15 CST		0	Source: COOP Observer
Thunderstorm winds were estimated to gust over 60 mph downing at least one large tree limb in the area. Very heavy rain accompanied the storm with almost 3 inches reported.				
GAGE COUNTY --- 3.4 NW KRIDER [40.11, -96.80]				
	09/13/10 18:25 CST		0	Hail (0.75 in)
	09/13/10 18:25 CST		0	Source: Trained Spotter
RICHARDSON COUNTY --- (FNB)BRENER FLD FALL [40.08, -95.58]				
	09/13/10 18:30 CST		0	Heavy Rain
	09/13/10 19:30 CST		0	Source: Newspaper
Rainfall of 3.5 to 5 inches was reported in the Falls City area, 3 inches of which fell in 1 hour at the airport. The heavy rain briefly flooded some county roads in the Straussville area northwest of town.				
RICHARDSON COUNTY --- 0.6 WSW (FNB)BRENER FLD FALL [40.08, -95.59], 0.5 SSW FALLS CITY [40.06, -95.60]				
	09/13/10 18:35 CST		0	Thunderstorm Wind (MG 50 kt)
	09/13/10 18:43 CST		0	Source: Emergency Manager
Thunderstorm wind gusts were measured at 58 mph by Asos at the Falls City airport at 743pm CDT. Winds were estimated at close to 65 mph in town which downed numerous tree limbs. Pea-size hail and over 3 inches of rain in an hour was also reported. The storm total in the Fall City area this evening was over 3 inches.				
RICHARDSON COUNTY --- 3.0 N (FNB)BRENER FLD FALL [40.12, -95.58]				
	09/13/10 18:35 CST		0	Hail (1.75 in)
	09/13/10 18:35 CST		0	Source: Newspaper
Golf ball-size hail was reported north of Falls City along with 3.5 inches of rain. The hail caused some crop damage in the area.				
Thunderstorms developed by mid afternoon on Sept. 13 along and north of a warm front that had moved into east central Nebraska. The air mass south of the boundary was moderately unstable with temperatures in the mid to upper 80s and dew point temperatures around 70. Additional thunderstorms developed in this unstable air mass south of the front, several of which were supercells. One supercell, the right-mover of a storm that split in Jefferson county produced a brief tornado southwest of Fairbury. Meanwhile, another supercell produced a swath of wind damage as it tracked south-southeast from around Wahoo into the southeast corner of Nebraska. Especially hard hit from that particular storm was the area from southeast Saunders county into Cass and Otoe counties where winds were estimated by an assessment team from the NWS at 60 to 80 mph. Several semi-trucks were blown off of Interstate 80 in this area and almost 3,000 customers lost power due to significant damage to trees, power poles/lines, houses and other structures in that region. The Nebraska Emergency Management Agency estimated that preliminary estimates of damage to public infrastructure totaled more than \$2.7 million from the storms and 7 counties applied for federal disaster aid.				
PIERCE COUNTY --- 0.7 S PIERCE [42.19, -97.53]				
	09/15/10 15:35 CST		0	Hail (1.00 in)
	09/15/10 15:35 CST		0	Source: Law Enforcement
DODGE COUNTY --- 0.9 SE FREMONT [41.44, -96.49]				
	09/15/10 17:51 CST		0	Thunderstorm Wind (EG 56 kt)
	09/15/10 17:51 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at close to 65 mph downed several trees and power lines in the Fremont area, causing loss of power to 90 to 100 people.				
DOUGLAS COUNTY --- 1.7 NNW VALLEY [41.34, -96.36]				

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/15/10 18:14 CST		0	Hail (1.50 in)
	09/15/10 18:14 CST		0	Source: Law Enforcement

Reported on Highway 275 a little north of Valley.

DOUGLAS COUNTY --- 1.2 NNW ELKHORN [41.29, -96.24]

09/15/10 18:24 CST	0	Hail (1.00 in)
09/15/10 18:24 CST	0	Source: NWS Employee

Thunderstorm winds estimated at 60 mph were accompanied by quarter-size hail in the Elkhorn area.

DOUGLAS COUNTY --- 1.3 NNW ELKHORN [41.30, -96.24]

09/15/10 18:24 CST	0	Thunderstorm Wind (EG 52 kt)
09/15/10 18:24 CST	0	Source: NWS Employee

Thunderstorm winds estimated at 60 mph were accompanied by quarter-size hail in the Elkhorn area.

DOUGLAS COUNTY --- 0.9 SW OMAHA [41.26, -96.01]

09/15/10 18:25 CST	0	Hail (0.88 in)
09/15/10 18:25 CST	0	Source: NWS Employee

Reported near 90th and Dodge.

DOUGLAS COUNTY --- 2.1 NW BOYS TOWN [41.29, -96.16], 1.0 NW BOYS TOWN [41.28, -96.14]

09/15/10 18:25 CST	0	Thunderstorm Wind (EG 52 kt)
09/15/10 18:28 CST	0	Source: NWS Employee

Thunderstorm wind gusts were estimated at 60 mph from near 156th and Maple to around 150th and Blondo Streets in west Omaha. The winds uprooted a large tree near 156th and Maple and caused other minor tree damage in the area. Pea-size and slightly larger hail accompanied the strong winds.

A line of thunderstorms, a few severe, dropped southeast from a little north of Norfolk into the Omaha area before weakening. The stronger storms contained hail up to 1.5 inches in diameter and wind gusts of 60 to 65 mph.

BOONE COUNTY --- PETERSBURG [41.85, -98.08]

09/17/10 23:06 CST	0	Hail (1.75 in)
09/17/10 23:06 CST	0	Source: Law Enforcement

Golf ball-size hail was reported by law enforcement in the Petersburg area.

MADISON COUNTY --- BATTLE CREEK [42.00, -97.60]

09/17/10 23:47 CST	0	Hail (1.00 in)
09/17/10 23:47 CST	0	Source: Trained Spotter

STANTON COUNTY --- 0.5 E STANTON [41.95, -97.22]

09/17/10 23:55 CST	0	Hail (1.00 in)
09/17/10 23:55 CST	0	Source: Law Enforcement

MADISON COUNTY --- 2.9 ENE (OFK)STEFAN FLD NORF [42.00, -97.38]

09/18/10 00:06 CST	0	Hail (0.75 in)
09/18/10 00:06 CST	0	Source: Law Enforcement

Reported near the Madison and Stanton county line.

THURSTON COUNTY --- 2.0 SW PENDER [42.10, -96.73], PENDER [42.12, -96.70]

09/18/10 00:41 CST	0	Hail (1.75 in)
09/18/10 00:41 CST	0	Source: Law Enforcement

Nickel to quarter-size hail was reported in the Pender area with a few hailstones up to golf ball-size.

ANTELOPE COUNTY --- 2.0 W NELIGH [42.13, -98.07]

09/18/10 02:08 CST	0	Hail (0.88 in)
09/18/10 02:12 CST	0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Dime to nickel-size hail covered the ground near Neligh.

DOUGLAS COUNTY --- 4.0 SSW LANE [41.20, -96.22]

09/18/10 04:29 CST	0	Hail (0.75 in)
09/18/10 04:29 CST	0	Source: Trained Spotter

DODGE COUNTY --- 0.9 SE FREMONT [41.44, -96.49]

09/18/10 06:55 CST	0	Hail (0.88 in)
09/18/10 06:55 CST	0	Source: Amateur Radio

Hail up to nickel-size was reported in the southeast part of Fremont.

Scattered thunderstorms developed behind a cold front from central into northeast Nebraska late in the evening of September 17th. The storms strengthened during the early morning hours of the 18th producing several reports of large hail.

WASHINGTON COUNTY --- 0.9 SE BLAIR [41.54, -96.14]

09/18/10 21:56 CST	0	Hail (0.88 in)
09/18/10 21:59 CST	0	Source: Trained Spotter

Nickel-size hail became golf ball-size in a few minutes time in the Blair area.

Thunderstorms redeveloped in extreme east central Nebraska and southwest Iowa during the evening of September 18th, north of a cold front that had pushed south of the region earlier in the day. The storms produced large hail and areas of very heavy rain.

NEMAHA COUNTY --- 1.2 E PERU [40.48, -95.71], 2.9 SW NEMAHA [40.30, -95.70], 6.9 SE NEMAHA [40.27, -95.57], 7.7 ESE NEMAHA [40.29, -95.54], 3.7 N BROWNVILLE [40.45, -95.65]

09/19/10 23:15 CST	2K	Flood (due to Heavy Rain)
09/30/10 23:59 CST	0	Source: Official NWS Observations

High levels of the Missouri River from summer rains and increased flows from upstream reservoirs were pushed back above flood stage in the Brownville area by additional heavy rain events in mid to late September 2010. The flooding continued into October. At Brownville the river crossed back above its 32 foot flood stage a little after midnight CDT on the 20th. Mainly agricultural lowlands were affected.

High levels of the Missouri River from periodic heavy rain events during the summer and increased releases from upstream reservoirs were pushed back above flood stage in late September 2010 by several heavy rain events in eastern Nebraska and western Iowa. The flooding continued into October.

KNOX COUNTY --- 2.9 NNW BLOOMFIELD [42.64, -97.65]

09/22/10 09:11 CST	0	Hail (1.75 in)
09/22/10 09:11 CST	0	Source: Public

KNOX COUNTY --- 6.6 NNE BLOOMFIELD [42.69, -97.60]

09/22/10 09:20 CST	0	Hail (3.00 in)
09/22/10 09:35 CST	0	Source: Newspaper

Hail up to around 3 inches in diameter was reported north of Bloomfield. The hail lasted for around 15 minutes and the larger hailstones were very jagged. However, because most of the larger hail fell before winds picked up, damage was minimal according to the Bloomfield Monitor.

KNOX COUNTY --- CROFTON [42.73, -97.48], 1.0 S CROFTON [42.72, -97.48]

09/22/10 09:26 CST	0	Hail (4.25 in)
09/22/10 09:44 CST	0	Source: Law Enforcement

Hail up to a little over 4 inches in diameter fell in the Crofton area. The hail lasted at least 15 minutes but was mostly smaller than golf ball-size.

CEDAR COUNTY --- 0.7 S WYNOT [42.74, -97.17]

09/22/10 09:51 CST	0	Hail (0.88 in)
09/22/10 09:51 CST	0	Source: Trained Spotter

CEDAR COUNTY --- 0.5 W MENOMINEE [42.78, -97.43]

09/22/10 10:01 CST	0	Hail (1.25 in)
09/22/10 10:01 CST	0	Source: Public

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KNOX COUNTY --- 11.0 SSW VERDEL [42.67, -98.27]				
	09/22/10 10:35 CST		0	Hail (1.00 in)
	09/22/10 10:35 CST		0	Source: Public
KNOX COUNTY --- 7.1 NNE VENUS [42.53, -98.27]				
	09/22/10 10:57 CST		0	Hail (1.25 in)
	09/22/10 10:57 CST		0	Source: Public
KNOX COUNTY --- 2.1 NNW VERDIGRE [42.63, -98.04]				
	09/22/10 11:12 CST		0	Hail (1.50 in)
	09/22/10 11:12 CST		0	Source: Public
KNOX COUNTY --- 0.5 W VERDIGRE [42.60, -98.04]				
	09/22/10 19:19 CST		0	Thunderstorm Wind (EG 52 kt)
	09/22/10 19:19 CST		0	Source: Law Enforcement
Thunderstorm winds that were estimated at 60 mph were accompanied by small hail.				
CEDAR COUNTY --- 0.7 S ST HELENA [42.81, -97.25]				
	09/22/10 19:30 CST		0	Heavy Rain
	09/23/10 05:08 CST		0	Source: Trained Spotter
A storm total rainfall of over 6 inches was reported in the St. Helena area.				
KNOX COUNTY --- 1.0 W CROFTON [42.73, -97.50]				
	09/22/10 20:00 CST		0	Heavy Rain
	09/23/10 05:00 CST		0	Source: Emergency Manager
A storm total of over 7 inches of rain was reported in the Crofton area. Besides causing flash flooding of a local creek in the area, most basements in the area were flooded by the heavy rain.				
KNOX COUNTY --- 1.0 W CROFTON [42.73, -97.50], 1.0 WSW CROFTON [42.73, -97.50], 0.5 WSW CROFTON [42.73, -97.49], 0.7 NW CROFTON [42.74, -97.49]				
	09/22/10 20:41 CST		10K	Flash Flood (due to Heavy Rain)
	09/22/10 23:41 CST		0	Source: Law Enforcement
Rainfall of over 7 inches was reported in less than 24 hours in the Crofton area. The second round of heavy rain to hit the area during the evening of the 22nd produced flash flooding of streets and a park in Crofton. Two sections of the fence around a baseball field were taken out by flood waters.				
KNOX COUNTY --- 6.1 SSW SANTEE [42.75, -97.87], 6.0 W LINDY [42.72, -97.85], 3.9 W LINDY [42.72, -97.81], 5.3 SSW SANTEE [42.76, -97.84]				
	09/23/10 06:35 CST		2K	Flash Flood (due to Heavy Rain)
	09/23/10 09:35 CST		0	Source: Law Enforcement
Rainfall of 6 to 7 inches fell on Sept. 22nd which produced flash flooding along Bazile Creek reducing Highway 12 to one lane east of Niobrara.				
Scattered thunderstorms developed in central Nebraska near a warm front during the early morning hours of September 22nd. The storms intensified as they moved into northeast Nebraska producing some very large hail and areas of heavy rain. These storms moved out of northeast Nebraska early in the afternoon of the 22nd. However, additional thunderstorms redeveloped from central into northeast Nebraska later that afternoon and evening. Heavy rain from these storms produced local flash flooding in northeast Nebraska in addition to isolated severe weather.				
(NE-Z066) LANCASTER				
	09/25/10 13:00 CST		0	Strong Wind (MAX 27 kt)
	09/25/10 13:00 CST	1	0	
Northeast winds briefly gusted to around 30 mph in the Lincoln as outflow from a departing area of showers along the Missouri River aided in increasing winds behind a weak front. The winds flipped an inflatable bounce house causing minor injuries to a child in Lincoln.				
RICHARDSON COUNTY --- 2.6 N BARADA [40.26, -95.58], 6.5 SE BARADA [40.16, -95.49], 3.7 N RULO [40.10, -95.43], 1.0 W RULO [40.05, -95.45], 4.8 ESE RULO [40.01, -95.35], 7.4 ESE RULO [40.02, -95.30], 6.8 NNE RULO [40.14, -95.38], 6.9 NE BARADA [40.29, -95.49]				

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/27/10 05:30 CST		1K	Flood (due to Heavy Rain)
	09/30/10 23:59 CST		0	Source: Official NWS Observations

High levels of the Missouri River were pushed back above flood stage in the Rulo area in late September 2010 by a few heavy rain events in mid to late September plus increased flows from rivers in western Iowa and southeast South Dakota from heavy rain earlier in the month there. The river at Rulo crossed above it's 17 foot flood stage during the morning of Sept. 27th and remained above flood stage into October. The flooding mainly affected agricultural lowlands.

OTOE COUNTY --- 7.0 N NEBRASKA CITY ARPT [40.77, -95.89], 2.6 NW NEBRASKA CITY ARPT [40.70, -95.90], 1.8 ESE NEBRASKA CITY [40.64, -95.82], 4.4 SE NEBRASKA CITY [40.61, -95.78], 5.8 ESE PAUL [40.52, -95.79], 8.0 E PAUL [40.55, -95.73], 5.6 ESE NEBRASKA CITY [40.63, -95.75]				
	09/28/10 14:30 CST		1K	Flood (due to Heavy Rain)
	09/30/10 23:59 CST		0	Source: Official NWS Observations

High levels of the Missouri River were pushed back above flood stage in the Nebraska City area in late September 2010 by a few heavy rain events in mid to late September plus increased flows from rivers in western Iowa and southeast South Dakota from heavy rain earlier in the month there. The river at Nebraska City crossed it's 18 foot flood stage during the afternoon of Sept. 28th and remained above flood stage into October. The flooding mainly affected agricultural lowlands.

Heavy summer rains, additional rain events in September and high flows from southeast South Dakota and western Iowa rivers caused additional flooding along the Missouri River in late September from Nebraska City downstream through Rulo. The flooding carried over into October.